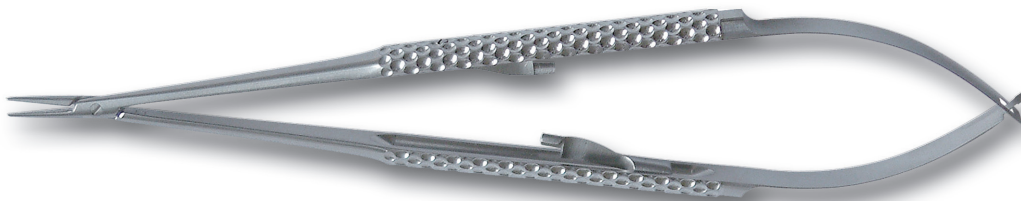


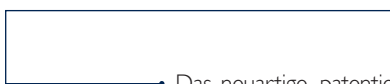
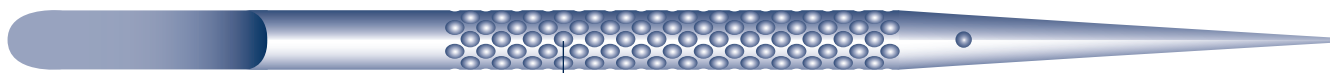
T O L E D O



**MICROMA**  
SURGERY

MICROMA Martin Alber GmbH & Co. KG · Hardtstraße 19 · D-78597 Imdorf · Fon +49 (0) 74 66-3 88 · Fax +49 (0) 74 66-1439  
info@microma-alber.com · www.microma.de

**TOLEDO – das neue Griffdesign**  
**TOLEDO – the new designed Handle**



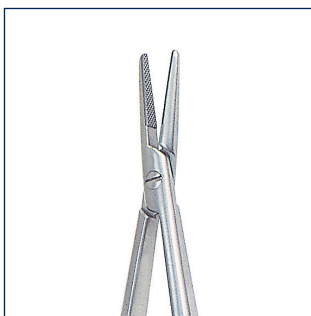
Das neuartige, patentierte Griffdesign TOLEDO ist charakterisiert durch folgende Merkmale:

- Ergonomisch
- Sichere und feinfühlig Handhabung
- Leichte Reinigung – keine schmutzanfällige Riefelung
- Ansprechendes Design

The new, patented handle design TOLEDO is characterized by the following features:

- Ergonomic
- Well balanced – sure and fine feeling in hand
- Easy to clean – no more dirt catching knurlings
- Sophisticated design

**Erläuterungen**  
**Comments**



**Hartmetall-Einsätze**

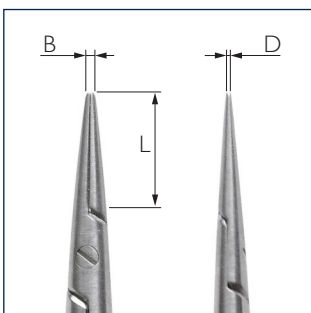
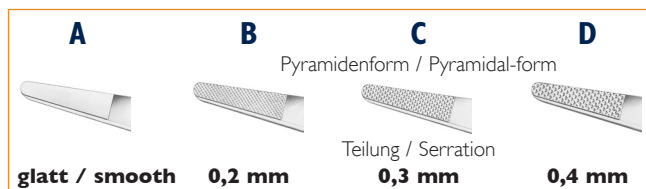
Instrumente mit Hartmetall-Einsätzen besitzen eine hohe Standzeit und Langlebigkeit. Sie gewährleisten ein sicheres Fassen und Halten der Nadel.

Die Instrumente sind mit vier verschiedenen Hartmetallplättchen (A – B – C – D) lieferbar. Bitte fügen Sie die Typenbezeichnung A – B – C – D der Artikelnummer bei.

**Tungsten Carbide Insert Jaws**

This instruments have tungsten carbide inserts bonded to their jaws. The instruments feature a high stability and a long lasting. This insert ensure a secure grasping of needles.

The instruments are available with difference Tungsten Carbide Inserts (A – B – C – D). Please add the type symbols A – B – C – D to the article number.



**Abmessungen**

Die Abmessungen des Nadelhaltermauls werden wie folgt angegeben:

$$\text{Länge} \times \text{Dicke} \times \text{Breite} = L \times D \times B$$

Beispiel:

$$\text{Maul } 12 \text{ mm lang, } 1,1 \text{ mm dick und } 1,5 \text{ mm breit} \\ = 12 \times 1,1 \times 1,5 \text{ mm}$$

**Dimensions**

The dimensions of the needle holders are indicated as follows:

$$\text{Length} \times \text{Thickness} \times \text{Width} = L \times D \times B$$

Example:

$$\text{Jaws } 12 \text{ mm length, } 1,1 \text{ mm thick and } 1,5 \text{ mm wide} \\ = 12 \times 1,1 \times 1,5 \text{ mm}$$

**Micro-Nadelhalter**  
Micro-Needle Holders

mit **TOLEDO** Griff  
with **TOLEDO** Handle



**TOLEDO**  
Nadelhalter  
Needle Holder

**ohne Sperre / without lock**

<b>DELICATE</b>						
	<b>Hartmetalleinsätze Tungsten Carbide Insert Jaws</b>				<b>Wolfram-Carbid-Beschichtung Wolfram Carbide Tip Coating</b>	
Dimensions	12 x 1,1 x 1,5 mm		12 x 1,2 x 2,0 mm		12 x 1,1 x 1,5 mm	
14 cm / 5 1/2"	<b>MB 280.14T</b>	<b>MB 285.14T</b>	<b>MB 520.14...T</b>	<b>MB 525.14...T</b>	<b>MB 880.14T</b>	<b>MB 885.14T</b>
18 cm / 7"	<b>MB 280.18T</b>	<b>MB 285.18T</b>	<b>MB 580.18...T</b>	<b>MB 585.18...T</b>	<b>MB 880.18T</b>	<b>MB 885.18T</b>
21 cm / 8 1/4"	<b>MB 280.21T</b>	<b>MB 285.21T</b>	<b>MB 580.21...T</b>	<b>MB 585.21...T</b>	<b>MB 880.21T</b>	<b>MB 885.21T</b>
23 cm / 9"	<b>MB 280.23T</b>	<b>MB 285.23T</b>	<b>MB 580.23...T</b>	<b>MB 585.23...T</b>	<b>MB 880.23T</b>	<b>MB 885.23T</b>

<b>MICRO</b>						
	<b>Hartmetalleinsätze Tungsten Carbide Insert Jaws</b>				<b>Wolfram-Carbid-Beschichtung Wolfram Carbide Tip Coating</b>	
Dimensions	12 x 0,8 x 1,2 mm		12 x 1,0 x 1,8 mm		12 x 0,8 x 1,2 mm	
14 cm / 5 1/2"	<b>MB 282.14T</b>	<b>MB 287.14T</b>	<b>MB 522.14...T</b>	<b>MB 527.14...T</b>	<b>MB 882.14T</b>	<b>MB 887.14T</b>
18 cm / 7"	<b>MB 282.18T</b>	<b>MB 287.18T</b>	<b>MB 582.18...T</b>	<b>MB 587.18...T</b>	<b>MB 882.18T</b>	<b>MB 887.18T</b>
21 cm / 8 1/4"	<b>MB 282.21T</b>	<b>MB 287.21T</b>	<b>MB 582.21...T</b>	<b>MB 587.21...T</b>	<b>MB 882.21T</b>	<b>MB 887.21T</b>
23 cm / 9"	<b>MB 282.23T</b>	<b>MB 287.23T</b>	<b>MB 582.23...T</b>	<b>MB 587.23...T</b>	<b>MB 882.23T</b>	<b>MB 887.23T</b>

**mit Sperre / with lock**

<b>DELICATE</b>						
	<b>Hartmetalleinsätze Tungsten Carbide Insert Jaws</b>				<b>diamantiertes Maul diamond coated jaws</b>	
Dimensions	12 x 1,1 x 1,5 mm		12 x 1,2 x 2,0 mm		12 x 1,1 x 1,5 mm	
14 cm / 5 1/2"	<b>MB 290.14T</b>	<b>MB 295.14T</b>	<b>MB 510.14...T</b>	<b>MB 515.14...T</b>	<b>MB 890.14T</b>	<b>MB 895.14T</b>
18 cm / 7"	<b>MB 290.18T</b>	<b>MB 295.18T</b>	<b>MB 590.18...T</b>	<b>MB 595.18...T</b>	<b>MB 890.18T</b>	<b>MB 895.18T</b>
21 cm / 8 1/4"	<b>MB 290.21T</b>	<b>MB 295.21T</b>	<b>MB 590.21...T</b>	<b>MB 595.21...T</b>	<b>MB 890.21T</b>	<b>MB 895.21T</b>
23 cm / 9"	<b>MB 290.23T</b>	<b>MB 295.23T</b>	<b>MB 590.23...T</b>	<b>MB 595.23...T</b>	<b>MB 890.23T</b>	<b>MB 895.23T</b>

<b>MICRO</b>						
	<b>Hartmetalleinsätze Tungsten Carbide Insert Jaws</b>				<b>diamantiertes Maul diamond coated jaws</b>	
Dimensions	12 x 0,8 x 1,2 mm		12 x 1,0 x 1,8 mm		12 x 0,8 x 1,2 mm	
14 cm / 5 1/2"	<b>MB 292.14T</b>	<b>MB 297.14T</b>	<b>MB 512.14...T</b>	<b>MB 517.14...T</b>	<b>MB 892.14T</b>	<b>MB 897.14T</b>
18 cm / 7"	<b>MB 292.18T</b>	<b>MB 297.18T</b>	<b>MB 592.18...T</b>	<b>MB 597.18...T</b>	<b>MB 892.18T</b>	<b>MB 897.18T</b>
21 cm / 8 1/4"	<b>MB 292.21T</b>	<b>MB 297.21T</b>	<b>MB 592.21...T</b>	<b>MB 597.21...T</b>	<b>MB 892.21T</b>	<b>MB 897.21T</b>
23 cm / 9"	<b>MB 292.23T</b>	<b>MB 297.23T</b>	<b>MB 592.23...T</b>	<b>MB 597.23...T</b>	<b>MB 892.23T</b>	<b>MB 897.23T</b>

**Micro-Federscheren**  
**Micro-Spring Scissors**

**mit TOLEDO Griff**  
**with TOLEDO Handle**



Blatt spitz Blade sharp		
7 mm	<b>MS 881.16T</b>	<b>MS 887.16T</b>
10 mm	<b>MS 882.16T</b>	<b>MS 888.16T</b>
14 mm	<b>MS 883.16T</b>	<b>MS 889.16T</b>

Blatt spitz Blade sharp					
	25°	45°	60°	90°	125°
7 mm	<b>MS 506.16T</b>	<b>MS 507.16T</b>	<b>MS 508.16T</b>	<b>MS 509.16T</b>	<b>MS 510.16T</b>
10 mm	<b>MS 476.16T</b>	<b>MS 477.16T</b>	<b>MS 478.16T</b>	<b>MS 479.16T</b>	<b>MS 480.16T</b>
14 mm	<b>MS 482.16T</b>	<b>MS 483.16T</b>	<b>MS 484.16T</b>	<b>MS 485.16T</b>	<b>MS 486.16T</b>

Blatt mit Knopf Blade with ball					
	25°	45°	60°	90°	125°
14 mm	<b>MS 489.16T</b>	<b>MS 490.16T</b>	<b>MS 491.16T</b>	<b>MS 492.16T</b>	<b>MS 493.16T</b>

**TOLEDO**  
 Federschere 16,5 cm  
 Spring Scissors 6 1/2"

**Micro-Pinzetten**  
Micro-Forceps

mit **TOLEDO Griff**  
with **TOLEDO Handle**



**TOLEDO**  
Pinzette  
Forceps

D e B A K E Y			
	1,2 mm	1,2 mm	
18 cm / 7"	<b>MP 800.18T</b>	<b>MP 803.18T</b>	
21 cm / 8 1/4"	<b>MP 800.21T</b>	<b>MP 803.21T</b>	

	1 x 2 Zähne / teeth			
	Ø 0,40 mm		Ø 0,70 mm	
18 cm / 7"	<b>MP 810.18T</b>	<b>MP 811.18T</b>	<b>MP 812.18T</b>	<b>MP 813.18T</b>
21 cm / 8 1/4"	<b>MP 810.21T</b>	<b>MP 811.21T</b>	<b>MP 812.21T</b>	<b>MP 813.21T</b>

mit Fadenplatte / with tying platform 0,4 x 7,0 mm			
	diamantiertes Maul diamond coated jaws		
18 cm / 7"	<b>MP 880.18T</b>	<b>MP 881.18T</b>	<b>MP 780.18T</b>
21 cm / 8 1/4"	<b>MP 880.21T</b>	<b>MP 881.21T</b>	<b>MP 780.21T</b>

mit Ring / with ring Ø 1,0 x 0,5 mm	
	diamantiertes Maul diamond coated jaws
18 cm / 7"	<b>MP 890.18T</b>
21 cm / 8 1/4"	<b>MP 890.21T</b>

**Micro-Pinzetten**  
**Micro-Forceps**

mit **TOLEDO Griff**  
with **TOLEDO Handle**



**TOLEDO**  
Pinzette  
Forceps

D e B A K E Y			
	1,2 mm	1,2 mm	
18 cm / 7"	<b>MP 190.18T</b>	<b>MP 195.18T</b>	
21 cm / 8 1/4"	<b>MP 190.21T</b>	<b>MP 195.21T</b>	

	1 x 2 Zähne / teeth			
	Ø 0,40 mm		Ø 0,70 mm	
18 cm / 7"	<b>MP 140.18T</b>	<b>MP 145.18T</b>	<b>MP 142.18T</b>	<b>MP 147.18T</b>
21 cm / 8 1/4"	<b>MP 140.21T</b>	<b>MP 145.21T</b>	<b>MP 142.21T</b>	<b>MP 147.21T</b>

mit Fadenplatte / with tying platform 0,4 x 7,0 mm				
diamantiertes Maul diamond coated jaws				
15 cm / 6"	<b>MP 170.15T</b>	<b>MP 175.15T</b>	<b>MP 580.15T</b>	<b>MP 585.15T</b>
18 cm / 7"	<b>MP 170.18T</b>	<b>MP 175.18T</b>	<b>MP 580.18T</b>	<b>MP 585.18T</b>
21 cm / 8 1/4"	<b>MP 170.21T</b>	<b>MP 175.21T</b>	<b>MP 580.21T</b>	<b>MP 585.21T</b>

mit Ring / with ring Ø 1,0 x 0,5 mm				
diamantiertes Maul diamond coated jaws				
15 cm / 6"	<b>MP 180.15T</b>	<b>MP 185.15T</b>	<b>MP 660.15T</b>	<b>MP 665.15T</b>
18 cm / 7"	<b>MP 180.18T</b>	<b>MP 185.18T</b>	<b>MP 660.18T</b>	<b>MP 665.18T</b>
21 cm / 8 1/4"	<b>MP 180.21T</b>	<b>MP 185.21T</b>	<b>MP 660.21T</b>	<b>MP 665.21T</b>